

Applicants: Ron S. Israeli et al.  
U.S. Serial No.: 08/894,583  
Filed: February 23, 1998

Pending Claims 30-32

30. A method of detecting expression of an alternatively spliced prostate specific membrane antigen in a cell or tissue, which alternatively spliced prostate specific membrane antigen consists essentially of consecutive amino acids, the amino acid sequence of which is set forth in SEQ ID NO:128 beginning with methionine at position number 58 and ending with alanine at position number 750, the nucleic acid encoding the alternatively spliced prostate specific membrane antigen having an intron splice site located between the G and T nucleotides at positions 114 and 115, respectively, as set forth in SEQ ID NO:1, wherein a splice at said site results in formation of an exon-exon junction characteristic of said alternatively spliced prostate specific membrane antigen, said method comprising:

- (1) contacting mRNA obtained from the cell or tissue with a detectable nucleic acid of at least 15 nucleotides in length which specifically hybridizes across said exon-exon junction; and
- (2) determining whether the detectable nucleic acid hybridizes to the mRNA,

wherein the presence of the detectable nucleic acid hybridized to the mRNA indicates expression of alternatively spliced prostate specific membrane antigen in

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the cell or tissue.

31. The method of claim 30, wherein the detectable nucleic acid is labeled with a detectable label.
32. The method of claim 31, wherein the detectable label is a radioisotope or fluorescent dye.